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DATASHEET

Diazoxide

Product overview

Name	Diazoxide
Cat No	HB0244
Biological action	Activator
Purity	>98%
Description	Selective K _{IR} 6 activator

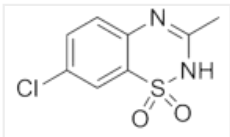
Biological Data

Biological description	Selective K _{IR} 6 (ATP-sensitive K ⁺) channel activator. Increases EPSCs to around 150% of control values. Shows cardioprotective actions during ischaemic injury by activating PKCε. Also shows neuroprotective and antihypertensive actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	7-Chloro-3-methyl-2H-1,2,4-benzothiadiazine 1,1-dioxide
Molecular Weight	230.67
Chemical structure	
Molecular Formula	C ₈ H ₇ ClN ₂ O ₂ S
CAS Number	364-98-7
PubChem identifier	3019
SMILES	CC1=NC2=C(C=C(Cl)C=C2)S(=O)(=O)N1
InChiKey	GDLBFKVLRPITMI-UHFFFAOYSA-N

References

Diazoxide blocks glutamate desensitization and prolongs excitatory postsynaptic currents in rat hippocampal neurons.

Yamada KA *et al* (1992) J Physiol 458

PubMedID [1302270](#)

Diazoxide acts more as a PKC-epsilon activator, and indirectly activates the mitochondrial K(ATP) channel conferring cardioprotection against hypoxic injury.

Kim MY *et al* (2006) Br J Pharmacol 149(8)

PubMedID 17043673

Towards selective Kir6.2/SUR1 potassium channel openers, medicinal chemistry and therapeutic perspectives.

Hansen JB (2006) Curr Med Chem 13(4)

PubMedID 16475928

The neuroprotective effect of diazoxide is mediated by mitochondrial ATP-dependent potassium channels in a rat model of acute subdural hematoma.

Nakagawa I *et al* (2013) J Clin Neurosci 20(1)

PubMedID 23036174
